EIIS Incident Report
Part A: General Information

Incident ID
I026517-001

County: Merced **Incident Date:** 3/24/2014 **through** 4/19/2014 **Year:**
State: CA **Total Number:** **Case #:** NPIC6020714
Country: USA **Total Magnitude:** 2000 hives **Weather:**

Incident Type

☐ Aqua. Animal ☑ Terr. Animal ☐ Field Study
☐ Aqua. Plant ☐ Terr. Plant

Created: ########
Updated: ########

Abstract:

There were 2000 honey bee hives were pollinating almonds in Merced County, CA. The bees started dying 24 March 2014 and ended 19 April 2014. Couaphos (at 2.9 ppb), cyprodinil (at 6.6 ppb) diflubenzuron (at 184 ppb) esfenvalerate (at trace amounts) fenbuconazole (at 1060 ppb) fluvalinate (at trace amounts) methoxlfenozide (at 1280 ppb) and pyripoxyfen (at 391 ppb) were detected in dead bees. These same analyses were submitted under I026518-001.

Reports

Package #	Incident #	Source	Report Date
026517	001	NPIC	
026518	001	NPIC	

EIIS Incident Report
Part B: Pesticide Information

I026517-001

County: Merced **State:** CA **Date:** 3/24/2014

Pesticide: **Coumaphos (036501)** **Type:** I

Use Site: Orchard (almond)

Product: **Appl. Method:** **Appl. Rate:**

Formulation: **Air/Ground:** **Legality:** Undetermined

Certainty: Possible

The acute and chronic toxicity data for coumaphos has been taken from publicly available studies that have not been reviewed by EFED.

Pesticide: **Cyprodinil (288202)** **Type:** F

Use Site: Orchard (almond)

Product: **Appl. Method:** **Appl. Rate:**

Formulation: **Air/Ground:** **Legality:** Undetermined

Certainty: Unlikely

Cyprodinil is practically non-toxic to bees. Cyprodinil was one of eight pesticides detected in the bee tissue samples.

Pesticide: **Diflubenzuron (108201)** **Type:** I

Use Site: Orchard (almond)

Product: **Appl. Method:** **Appl. Rate:**

Formulation: **Air/Ground:** **Legality:** Undetermined

Certainty: Unlikely

Diflubenzuron was one of eight pesticides detected in the bee tissue samples. Diflubenzuron is considered non-toxic to bees.

Pesticide: **Esfenvalerate (109303)** **Type:** I

Use Site: Orchard (almond)

Product: **Appl. Method:** **Appl. Rate:**

Formulation: **Air/Ground:** **Legality:** Undetermined

Certainty: Possible

Esfenvalerate was one of eight pesticides detected in bee tissue samples. Esfenvalerate is highly toxic to bees most intoxicated bees die in the field before they can return to the hive.

Pesticide: **Fenbuconazole (129011)** **Type:** F

Use Site: Orchard (almond)

Product: **Appl. Method:** **Appl. Rate:**

Formulation: **Air/Ground:** **Legality:** Undetermined

Certainty: Unlikely

Fenbuconazole is considered relatively non-toxic to bees. Fenbuconazole was one of eight pesticides detected in the bee tissue samples.

Pesticide: **Methoxyfenozide (121027)** **Type:** I

Use Site: Orchard (almond)

Product: **Appl. Method:** **Appl. Rate:**

Formulation: **Air/Ground:** **Legality:** Undetermined

Certainty: Possible

Methoxyfenozide was one of eight pesticides detected in the bee tissue samples.

Pesticide: **Pyriproxyfen (129032)** **Type:** I

Use Site: Orchard (almond)

Product: **Appl. Method:** **Appl. Rate:**

Formulation: **Air/Ground:** **Legality:** Undetermined

Certainty: Possible

Pyriprooxyfen was one of eight pesticides detected in the bee tissue samples.

EIIS Incident Report
Part C: Species Information

I026517-001

County: Merced **State:** CA **Date:** ########

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Species: Honey bee
Sci. Name: Apis millifera
Taxon: Insect
Age:

Response: Mortality
Magnitude: 2000 hives
Habitat: Orchard
Distance: On site
Rt. of Exposure: N/R

Necropsy

Number:
Condition:

Cholinesterase

Number:
Activity: um/g/min
Percent of Normal

Tissue Residues

Sample Type	PC Code	Pesticide	N	Conc. (ppm)
Tissue	129032	Pyriproxyfen	1	0.0391
Tissue	288202	Cyprodinil	1	0.0066
Tissue	108201	Diflubenzuron	1	0.0184
Tissue	109303	Esfenvalerate	1	trace
Tissue	109302	Fluvalinate	1	trace
Tissue	129011	Fenbuconazole	1	0.1060
Tissue	121027	Methoxyfenozide	1	0.1280
Tissue	036501	Coumaphos	1	0.0029

EIIS Incident Report

Part D: Environmental Measurements

County: State: Date:

Common Name	PC Code	Degredate

		Min.	Max.	N	LOD
Concentrations in ppb	Water				
	Soil				
	Sediment				
	Foliage				

	Description	Concentration	N	LOD
Other Samples				

Dissolved Oxygen (ppm) to pH to